

#9



PCT09

RAW SEQUENCE LISTING

DATE: 02/25/2002

PATENT APPLICATION: US/09/857,636

TIME: 10:54:19

Input Set : A:\00537-186001.TXT

Output Set: N:\CRF3\02252002\I857636.raw

4 <110> APPLICANT: Dong, Zheng Xin
7 <120> TITLE OF INVENTION: Analogues of GLP-1
10 <130> FILE REFERENCE: 00537-186002
12 <140> CURRENT APPLICATION NUMBER: 09/857,636
13 <141> CURRENT FILING DATE: 2001-06-07
15 <150> PRIOR APPLICATION NUMBER: PCT/EP99/09660
16 <151> PRIOR FILING DATE: 1999-12-07
18 <150> PRIOR APPLICATION NUMBER: 60/111,255
19 <151> PRIOR FILING DATE: 1998-12-07
21 <150> PRIOR APPLICATION NUMBER: 09/206,601
22 <151> PRIOR FILING DATE: 1998-12-07
24 <160> NUMBER OF SEQ ID NOS: 411
26 <170> SOFTWARE: FastSEQ for Windows Version 4.0
28 <210> SEQ ID NO: 1
29 <211> LENGTH: 30
30 <212> TYPE: PRT
31 <213> ORGANISM: Homo sapiens
33 <400> SEQUENCE: 1
34 His Ala Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly
35 1 5 10 15
36 Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg
37 20 25 30
39 <210> SEQ ID NO: 2
40 <211> LENGTH: 30
41 <212> TYPE: PRT
42 <213> ORGANISM: Artificial Sequence
44 <220> FEATURE:
45 <223> OTHER INFORMATION: Mutagen
47 <221> NAME/KEY: VARIANT
48 <222> LOCATION: 2, 29
49 <223> OTHER INFORMATION: Xaa = Aib (alpha-aminoisobutyric acid)
51 <221> NAME/KEY: VARIANT
52 <222> LOCATION:
53 <223> OTHER INFORMATION: this sequence has an amidated c-terminus
55 <400> SEQUENCE: 2
56 His Xaa Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly
57 1 5 10 15
58 Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Xaa Arg
59 20 25 30
61 <210> SEQ ID NO: 3
62 <211> LENGTH: 30
63 <212> TYPE: PRT
64 <213> ORGANISM: Artificial Sequence

P.S.
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66 <220> FEATURE:
 67 <223> OTHER INFORMATION: Mutagen
 69 <221> NAME/KEY: VARIANT
 70 <222> LOCATION: 1
 71 <223> OTHER INFORMATION: Xaa = Na-HEPES-His
 72 (N-alpha-(4-(2-hydroxyethyl)-1-piperazine-ethanesu
 73 lfonic acid)-histidine
 75 <221> NAME/KEY: VARIANT
 76 <222> LOCATION: 2, 29
 77 <223> OTHER INFORMATION: Xaa = Aib (alpha-aminoisobutyric acid)
 79 <221> NAME/KEY: VARIANT
 80 <222> LOCATION:
 81 <223> OTHER INFORMATION: this sequence has an amidated c-terminus
 83 <400> SEQUENCE: 3
 W-> 84 Xaa Xaa Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly
 85 1 5 10 15
 W-> 86 Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Xaa Arg
 87 20 25 30
 89 <210> SEQ ID NO: 4
 90 <211> LENGTH: 30
 91 <212> TYPE: PRT
 92 <213> ORGANISM: Artificial Sequence
 94 <220> FEATURE:
 95 <223> OTHER INFORMATION: Mutagen
 97 <221> NAME/KEY: VARIANT
 98 <222> LOCATION: 1
 99 <223> OTHER INFORMATION: Xaa = Na-HEPA-His
 100 (N-alpha-(4-(2-hydroxyethyl)-1-piperazineacetyl)-
 101 histidine
 104 <221> NAME/KEY: VARIANT
 105 <222> LOCATION: 2, 29
 106 <223> OTHER INFORMATION: Xaa = Aib (alpha-aminoisobutyric acid)
 108 <221> NAME/KEY: VARIANT
 109 <222> LOCATION:
 110 <223> OTHER INFORMATION: this sequence has an amidated c-terminus
 112 <400> SEQUENCE: 4
 W-> 113 Xaa Xaa Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly
 114 1 5 10 15
 W-> 115 Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Xaa Arg
 116 20 25 30
 118 <210> SEQ ID NO: 5
 119 <211> LENGTH: 30
 120 <212> TYPE: PRT
 121 <213> ORGANISM: Artificial Sequence
 123 <220> FEATURE:
 124 <223> OTHER INFORMATION: Mutagen
 126 <221> NAME/KEY: VARIANT
 127 <222> LOCATION: 2
 128 <223> OTHER INFORMATION: Xaa = Aib (alpha-aminoisobutyric acid)

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130 <221> NAME/KEY: VARIANT
 131 <222> LOCATION: 29
 132 <223> OTHER INFORMATION: Xaa = beta-Ala (beta-alanine)
 134 <221> NAME/KEY: VARIANT
 135 <222> LOCATION:
 136 <223> OTHER INFORMATION: this sequence has an amidated c-terminus
 138 <400> SEQUENCE: 5
 139 His Xaa Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly
 140 1 5 10 15
 W--> 141 Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Xaa Arg
 142 20 25 30
 144 <210> SEQ ID NO: 6
 145 <211> LENGTH: 30
 146 <212> TYPE: PRT
 147 <213> ORGANISM: Artificial Sequence
 149 <220> FEATURE:
 150 <223> OTHER INFORMATION: Mutagen
 152 <221> NAME/KEY: VARIANT
 153 <222> LOCATION: 2, 29
 154 <223> OTHER INFORMATION: Xaa = Aib (alpha-aminoisobutyric acid)
 156 <221> NAME/KEY: VARIANT
 157 <222> LOCATION: 30
 158 <223> OTHER INFORMATION: Xaa = N-epsilon-tetradecanoyl-lysine
 160 <221> NAME/KEY: VARIANT
 161 <222> LOCATION:
 162 <223> OTHER INFORMATION: this sequence has an amidated c-terminus
 164 <400> SEQUENCE: 6
 165 His Xaa Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly
 166 1 5 10 15
 W--> 167 Gln Ala Ala Arg Glu Phe Ile Ala Trp Leu Val Arg Xaa Xaa
 168 20 25 30
 170 <210> SEQ ID NO: 7
 171 <211> LENGTH: 30
 172 <212> TYPE: PRT
 173 <213> ORGANISM: Artificial Sequence
 175 <220> FEATURE:
 176 <223> OTHER INFORMATION: Mutagen
 178 <221> NAME/KEY: VARIANT
 179 <222> LOCATION: 2, 29
 180 <223> OTHER INFORMATION: Xaa = Aib (alpha-aminoisobutyric acid)
 182 <221> NAME/KEY: VARIANT
 183 <222> LOCATION: 28
 184 <223> OTHER INFORMATION: Xaa = N-epsilon-tetradecanoyl-lysine
 186 <221> NAME/KEY: VARIANT
 187 <222> LOCATION:
 188 <223> OTHER INFORMATION: this sequence has an amidated c-terminus
 190 <400> SEQUENCE: 7
 191 His Xaa Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly
 192 1 5 10 15

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193 Gln Ala Ala Arg Glu Phe Ile Ala Trp Leu Val Xaa Xaa Arg
 194 20 25 30
 196 <210> SEQ ID NO: 8
 197 <211> LENGTH: 32
 198 <212> TYPE: PRT
 199 <213> ORGANISM: Artificial Sequence
 201 <220> FEATURE:
 202 <223> OTHER INFORMATION: Mutagen
 204 <221> NAME/KEY: VARIANT
 205 <222> LOCATION: 2, 29, 31
 206 <223> OTHER INFORMATION: Xaa = Aib (alpha-aminoisobutyric acid)
 208 <221> NAME/KEY: VARIANT
 209 <222> LOCATION: 32
 210 <223> OTHER INFORMATION: Xaa = N-epsilon-tetradecanoyl-lysine
 212 <221> NAME/KEY: VARIANT
 213 <222> LOCATION:
 214 <223> OTHER INFORMATION: this sequence has an amidated c-terminus
 216 <400> SEQUENCE: 8
 217 His Xaa Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly
 218 1 5 10 15
 219 Gln Ala Ala Arg Glu Phe Ile Ala Trp Leu Val Arg Xaa Arg Xaa Xaa
 220 20 25 30
 222 <210> SEQ ID NO: 9
 223 <211> LENGTH: 30
 224 <212> TYPE: PRT
 225 <213> ORGANISM: Artificial Sequence
 227 <220> FEATURE:
 228 <223> OTHER INFORMATION: Mutagen
 230 <221> NAME/KEY: VARIANT
 231 <222> LOCATION: 2, 29
 232 <223> OTHER INFORMATION: Xaa = Aib (alpha-aminoisobutyric acid)
 234 <221> NAME/KEY: VARIANT
 235 <222> LOCATION: 30
 236 <223> OTHER INFORMATION: Xaa = N-epsilon-decanoyl-lysine
 238 <221> NAME/KEY: VARIANT
 239 <222> LOCATION:
 240 <223> OTHER INFORMATION: this sequence has an amidated c-terminus
 242 <400> SEQUENCE: 9
 243 His Xaa Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly
 244 1 5 10 15
 245 Gln Ala Ala Arg Glu Phe Ile Ala Trp Leu Val Arg Xaa Xaa
 246 20 25 30
 248 <210> SEQ ID NO: 10
 249 <211> LENGTH: 30
 250 <212> TYPE: PRT
 251 <213> ORGANISM: Artificial Sequence
 253 <220> FEATURE:
 254 <223> OTHER INFORMATION: Mutagen
 256 <221> NAME/KEY: VARIANT

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257 <222> LOCATION: 2, 29
 258 <223> OTHER INFORMATION: Xaa = Aib (alpha-aminoisobutyric acid)
 260 <221> NAME/KEY: VARIANT
 261 <222> LOCATION: 30
 262 <223> OTHER INFORMATION: Xaa = N-epsilon-dodecanesulfonyl-lysine
 264 <221> NAME/KEY: VARIANT
 265 <222> LOCATION:
 266 <223> OTHER INFORMATION: this sequence has an amidated c-terminus
 268 <400> SEQUENCE: 10
 269 His Xaa Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly
 270 1 5 10 15
 271 Gln Ala Ala Arg Glu Phe Ile Ala Trp Leu Val Arg Xaa Xaa
 272 20 25 30
 274 <210> SEQ ID NO: 11
 275 <211> LENGTH: 30
 276 <212> TYPE: PRT
 277 <213> ORGANISM: Artificial Sequence
 279 <220> FEATURE:
 280 <223> OTHER INFORMATION: Mutagen
 282 <221> NAME/KEY: VARIANT
 283 <222> LOCATION: 2, 29
 284 <223> OTHER INFORMATION: Xaa = Aib (alpha-aminoisobutyric acid)
 286 <221> NAME/KEY: VARIANT
 287 <222> LOCATION: 30
 288 <223> OTHER INFORMATION: Xaa =
 289 N-epsilon-(2-(4-tetradecyl-1-piperazine)-acetyl)lysine
 291 <221> NAME/KEY: VARIANT
 292 <222> LOCATION:
 293 <223> OTHER INFORMATION: this sequence has an amidated c-terminus
 295 <400> SEQUENCE: 11
 296 His Xaa Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly
 297 1 5 10 15
 298 Gln Ala Ala Arg Glu Phe Ile Ala Trp Leu Val Arg Xaa Xaa
 299 20 25 30
 301 <210> SEQ ID NO: 12
 302 <211> LENGTH: 30
 303 <212> TYPE: PRT
 304 <213> ORGANISM: Artificial Sequence
 306 <220> FEATURE:
 307 <223> OTHER INFORMATION: Mutagen
 309 <221> NAME/KEY: VARIANT
 310 <222> LOCATION: 2, 29
 311 <223> OTHER INFORMATION: Xaa = Aib (alpha-aminoisobutyric acid)
 313 <221> NAME/KEY: VARIANT
 314 <222> LOCATION: 30
 315 <223> OTHER INFORMATION: Xaa = 1-(4-tetradecyl-piperazine)-acetyl)asparagines
 317 <221> NAME/KEY: VARIANT
 318 <222> LOCATION:
 319 <223> OTHER INFORMATION: this sequence has an amidated c-terminus

Use of n and/or Xaa has been detected in the Sequence Listing.
 Review the Sequence Listing to insure a corresponding
 explanation is presented in the <220> to <223> fields of
 each sequence using n or Xaa.

VERIFICATION SUMMARY

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Input Set : A:\00537-186001.TXT

Output Set: N:\CRF3\02252002\I857636.raw

L:56 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:58 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:84 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:86 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:113 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:115 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:139 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:141 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:165 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:167 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:191 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:193 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:217 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:219 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:243 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:245 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:269 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:271 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:296 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:298 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:322 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:324 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:348 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:350 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:379 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
L:381 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
L:405 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:407 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:431 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:433 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:453 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:455 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:475 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
L:477 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
L:501 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
L:503 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
L:527 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
L:529 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
L:549 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21
L:551 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21
L:575 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22
L:577 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22
L:601 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23
L:603 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23
L:627 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24
L:629 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24
L:659 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25
L:661 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25

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L:689 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26

L:691 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26